MINIATURE CATALOG of SWARTWOUT STEAM SPECIALTIES

#13

SIXTH EDITION

Industrial Requirements Co.

136 Chestnut Street

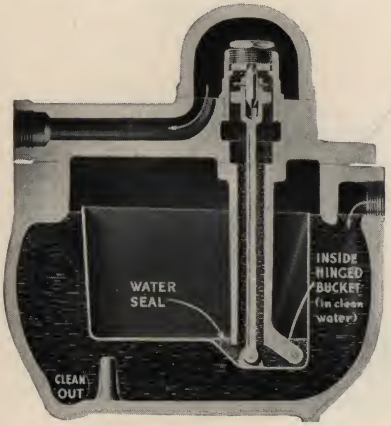
PHILADELPHIA, PA.

SWARTWOUT STEAM SPECIALTIES

Miniature Catalog
Sixth Edition

INDEX

SWARTWOUT
HYDROMATIC STEAM TRAP



RISING water fills the bucket, causing the left side to drop until it strikes the bucket stop. This lever action on the pull rod opens the discharge valve wide. Steam pressure empties the bucket and it then rises by its own buoyancy, closing the valve.

The Hydromatic Trap has many exceptional features. A patented and exclusive point is a perfect water seal that effectively prevents the escape of all steam. By the use of the inside hinged bucket the swirl of the water in passing also keeps the hinge free from scale or sediment and prevents clogging.

The design, construction and materials permit any trap to be used at all pressures up to 250 lbs. merely by substituting the interchangeable valves and seats. Wear is at a minimum; the valve and seat are the only moving parts, they are made of monel metal and reversible.

PRICE LIST
"SWARTWOUT" HYDROMATIC TRAP

All sizes can be fitted with valves and seats suitable for pressures from 0 to 250 lbs. When ordering state the highest operating pressure. If no pressure is specified, traps will be fitted with 150 lb. valves.

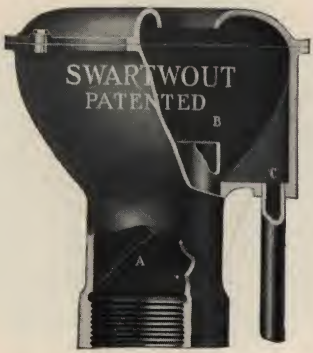
SIZE	CAPACITY			WEIGHT	PRICE
	Linear ft. of 1 in. pipe	Square ft. of Radiation	Pounds of Water per hour		
½ in.	9000	3000	1000	35	$ 18.00
¾ in.	15300	5100	1700	60	22.00
1 in.	18000	6000	2000	90	28.00
1¼ in.	40500	13500	4500	120	35.00
1½ in.	50400	16800	5600	170	50.00
2 in.	70650	23550	7850	250	70.00

GIVE HIGHEST PRESSURE UNDER WHICH TRAP IS TO OPERATE

Unless otherwise specified, 150 lb. valve will be supplied

The Hydromatic is guaranteed to perform up to rated capacity and to be free from defective material or workmanship.

SWARTWOUT
CAST IRON
EXHAUST HEADS



THE simplest application of the helico-centrifugal principle is found in the "Swartwout" Cast Iron Exhaust Head. As the whirling steam emerges from the helix tube A into the expanding portion of the head, the water particles, which have been given a circular motion by the helix, are flung far outward. The water collects in the annular chamber B, and is removed through the drip pipe C.

The cast iron construction is another feature of equal importance. Cast iron exhaust heads will last a lifetime; they are light and ornamental.

Companion flanges furnished on sizes 6″ to 10″ inclusive without extra charge.

SWARTWOUT
GALVANIZED
EXHAUST HEADS

LIKE the "Swartwout" all-cast-iron exhaust head, the galvanized head is characterized by extreme simplicity. It has no baffle plates or other interior obstructions common to all other galvanized exhaust heads. It imposes no back pressure.

The drum is built of heavy galvanized steel closely riveted and soldered, and secured to a substantial cast iron base.

The "Swartwout" construction allows a wide latitude in form and dimensions, making it adaptable to all special conditions.

List prices same as for Cast Iron Exhaust Heads, page 6.

Companion Flanges not furnished on galvanized heads except at extra cost.

SWARTWOUT EXHAUST HEADS

Cast Iron **Galvanized Steel**

PRICE LIST

Subject to Discount.
Net Prices Quoted on Request.

Size of Exhaust Pipe Inches	Price	Size of Exhaust Pipe Inches	Price
1	$ 20.00	12	$ 150.00
1½	20.00	14	200.00
2	25.00	16	250.00
2½	25.00	18	300.00
3	30.00	20	360.00
3½	30.00	22	450.00
4	40.00	24	600.00
4½	40.00	26	700.00
5	50.00	28	800.00
6	60.00	30	900.00
7	75.00	32	1000.00
8	90.00	34	1100.00
10	125.00	36	1200.00

Sizes 5-inch and smaller are tapped with standard steam-pipe threads. Larger sizes are equipped with standard flanges conforming in dimensions to the schedule adopted March 20th, 1914, by a joint committee of the National Association of Master Steam and Hot Water Fitters, The American Society of Mechanical Engineers and The Committee of Manufacturers on Standardization of Fittings and Valves. Bolt holes of flanges are drilled to straddle center-line of drip outlet on sizes 6-inch and larger.

SWARTWOUT
VERTICAL
STEAM SEPARATOR
(Patented)

IT is recognized that steam separators are necessary elements in a power plant having any pretension to economy or completeness; but it is equally true that the advantages may be more than offset by the loss of pressure inevitable in separators of the impact type. The simplest and most practical separator now on the market is that embodying the helico-centrifugal principle which gradually gives the water particles a spiral motion and causes them to be thrown outward by centrifugal force. The separation is positive and furnishes steam which is 99% dry; because of the simple direct flow this is accomplished with absolute freedom from back pressure. The large capacity of the chamber or reservoir takes care of all water coming over from the boiler, thereby protecting the engine.

(*Patented*)

SWARTWOUT HORIZONTAL STEAM SEPARATORS

THE direct - flow feature of the "Swartwout" Vertical Steam Separator is noticeable in all forms built upon the helico-centrifugal principle. The chambers are exceedingly large so that shaking or vibration of the pipes due to sudden closing of steam valves is entirely avoided; there is an entire absence of baffle plates and other obstructions—there is nothing simpler.

All horizontal separators are provided with eyebolts to facilitate installation.

SWARTWOUT VERTICAL ANGLE TYPE STEAM SEPARATORS

THE "Swartwout" Steam Separators are manufactured in a variety of designs which make installation easy without additional bends in steam piping. The angle type takes the place of an elbow.

(*Patented*)

Vertical Type

Angle Type

RECEIVER TYPE

Prices gladly quoted on request

"Swartwout" Receiver Separators are made of wrought steel for working pressures up to 250 pounds per square inch and in a large variety of designs.

SWARTWOUT
STEAM SEPARATORS

(*Pages* 7-8))

PRICE LIST

Size Pipe Inches	Price Vertical Type	Price Horiz'tal Type	Size Pipe Inches	Price Vertical Type	Price Horiz'tal Type
1	$20	$20	4½	$ 80	$ 80
1½	25	25	5	95	95
2	35	35	6	120	120
2½	45	45	7	140	140
3	50	50	8	175	175
3½	60	60	10	250	250
4	70	70	12	300	300

Prices include flanges, bolts, water-gauges, outlet valve and nipple. Discounts on application. Unless ordered otherwise the bolt holes of flanges will be drilled to straddle the vertical center-line.

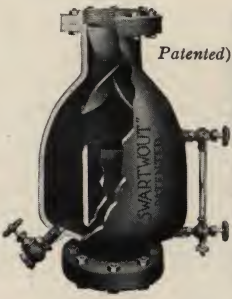
SWARTWOUT
HORIZONTAL
OIL SEPARATORS

(Patented)

THE harmful effect of oil in boiler feed water and in exhaust steam used in heating and drying systems is a matter of common knowledge. Of the methods and devices used to remove oil from steam those built upon the heli-co-centrifugal principle are most successful. The oil, being merely mechanically mixed with the steam, is readily removed by centrifugal force and in Swartwout cast iron oil separators, the oil, once thrown out of line, is absolutely prevented from escaping with the steam. The Swartwout Separators secure maximum efficiency and durability; all parts are of ample strength to withstand the working pressure. Baffle plates have been eliminated—there is absolutely no interference with the direct flow of steam. For convenience they are made in many styles—for vertical pipes and for horizontal pipes. The larger sizes of the horizontal type are made in two or three pieces to facilitate installation. All sizes of horizontal separators have eyebolts.

SWARTWOUT
VERTICAL
OIL SEPARATORS

Sizes 12 in. and Smaller



Patented

THE Swartwout Vertical Oil Separators are made in two styles, for up current and for down current.

The helico-centrifugal principle as used in Swartwout oil Separators of all types is equally effective for taking oil out of steam in vacuum systems.

OIL SEPARATORS PRICE LIST

Size Pipe Inches	Price Standard Vertical Down-Current	Price Special Vertical Up-current	Price Standard Horizontal
1½	$ 35		$35
2	45		45
2½	50		50
3	60		60
3½	65		65
4	75		75
4½	80		80
5	90		90
6	115		115
7	135		135
8	165		165
9	210		210
10	240		240
12	280		280
14	350		350
16	425		425
18	500		500
20	600		600

Special: please ask us to quote

Prices include water-gauge, drip valve, nipple and companion flanges and bolts on sizes 12 inches and smaller. On sizes 14 inches and larger an extra charge will be made for companion flanges.

SWARTWOUT
HYDROMATIC WATER-LEVEL CONTROL VALVE

(*Patented*)

MAINTAINS a constant water-level in open heaters, tanks, vats, reservoirs, etc. The controlling valve is opened or closed by its pilot valve (see lower cut) controlled by its float. The float rising or falling with the water opens or shuts the pilot valve which in turn causes the water to flow through or back up in the auxiliary pipe running from the main valve to the pilot valve. This opens or shuts the Hydromatic valve that controls the main inlet. The design is simple and the operation positive. For complete details get Bulletin No. 214.

(*Patented*)

List Prices of Hydromatic Valves

Size	Cast Iron Body Brass Mounted	Brass Body
1 inch	.....	$22.50
1¼-inch	.....	$27.50
1½-inch	.....	$35.00
2 inch	$ 30.00	.....
3 inch	$ 55.00	.....
4 inch	$ 70.00	.....
6 inch	$130.00	.....

Parts List

5 inch Seamless Copper Float.....$ 2.50
Brass Pilot Valve complete.....$ 7.50
Casing for Float C. I.....$10.00

Prices on sizes above 6-inch furnished on request. Prices on Valves include seamless copper float and brass pilot valve complete. **Casing extra.** Sizes 1-inch to 6 inch carried in stock. All valves must pass our standard test before leaving factory.

SWARTWOUT STEAM SPECIALTIES

STEAM SEPARATORS
OIL SEPARATORS
EXHAUST HEADS
WATER LEVEL
CONTROL VALVES
TRAPS

Sixth Edition No. 151

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